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 Salzmann, T.; Peppel, M.;
[Industry Applications, IEEE Transactions on](#)
 Volume 24, Issue 1, Part 1, Jan.-Feb. 1988 Page(s):115 - 120
 Digital Object Identifier 10.1109/28.87260
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GTO driving and protection technique with status monitoring

Salzmann, J., Poppe, M.
Siemens AG, Erlangen, West Germany ;

This paper appears in: [Industry Applications, IEEE Transactions on](#)

Publication Date: Jan.-Feb. 1988

Volume: 24, Issue: 1, Part 1

On page(s): 115 - 120

ISSN: 0093-9994

CODEN: ITIACR

INSPEC Accession Number: 3152629

Digital Object Identifier: 10.1109/28.87260

Posted online: 2002-08-06 16:03:56.0

Abstract

Self-commutated converters can be simplified considerably and improved by the use of GTO thyristors. An advanced gate driving and protection concept characterized by **identifier** circuits in the gate driving system is described. There are a number of advantages in knowing the momentary switching states of the GTOs in a converter circuit. Gate driving can be optimized for the highest possible level of operating safety and dangerous switching states avoided. In the **event** of a fault, additional protection functions can be activated for effective limitation of secondary damage, and the **identifier** circuits also detect defective GTOs, which provides extra information for fault diagnosis. For this purpose the gate drive unit contains, in addition to the basic functions for gating the GTOs, function blocks for the identification of switching states and for the adaptive interlocking of the firing pulses in an inverter, as well as a protective firing circuit to meet the contingency that during turn-off the current has already reached a value high enough to jeopardize the GTO. The protection concept for the GTOs decisively affects economic inverter dimensioning. The aim is to **interrupt** operation only under extreme fault conditions (defective components) and to minimize secondary damage. Passive protection is supplemented by active measures derived from the status signals

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